STANDARD OPERATING PROCEDURE (SOP)

	SOP NO.16	**EHS/SS-IM/SP /SOP-16**	**Effective Date**	**01-09-2022**	**REV. No.**	**00**
	SOP DESCRIPTION	**Chemical Analysis of Sinter & Sinter Return Fines**	**SECTION**	SP Lab.		
	DEPARTMENT	Scientific Services - Iron Making	**PAGE**	**Page 1 of 4**		

Step No	Details of Activity (WHAT)	Associated safety Hazards/ Env. Impacts/ Quality Requirements	Responsibility (WHO)	Safe process (tools & Equipment, PPEs, Training etc.) (HOW)	Remarks / Reference (Document & Records)
01	**Chemical Analysis of Sinter & Sinter Return fines**	**SAFETY HAZARD:** **1-Burn injury**	**Shift In charge**	**PPE :** • **Heat prove Hand gloves** • **Safety goggles.** • **Safety Shoe.** • **Nose mask** • **Apron** • **Waste water disposes ETP (Effluent Treatment Plant).**	**IS 9959-1981**
		ENVIRONMENT: **1-Water pollution**			**1.Chemical reagents at the time of normality preparation, chemical should be AR/LR make.** **2.Chemical should be kept in proper place.** **3. All the chemicals should have material safety data sheet(MSDS).**
		QUALITY: **1-Maintion Good housekeeping inside lad.** **2-Callibration required by NABL accredited Lab.**			

PREPARED BY	APPROVED BY	
Name and Designation :	Name and Designation	
Signature with Date :	Signature with Date :	

Safe process:

Determination of SiO2:

As per Sl no 1 of EHS/SS-IM/SP/SOP-15

Determination Of Al2O3:

As per Sl no 3 of EHS/SS-IM/SP/SOP-15

Determination Of CaO:

As per Sl no 7 of EHS/SS-IM/SP/SOP-15

Determination Of MgO:

As per Sl no 8 of EHS/SS-IM/SP/SOP-15

Determination Of FeO:

As per Sl no 6 of EHS/SS-IM/SP/SOP-15

Determination Of Fe(T):

As per Sl no 2 of EHS/SS-IM/SP/SOP-15

Determination Of P:

As per Sl no 4 of EHS/SS-IM/SP/SOP-15

Determination Of B2 :

B2=CaO/SiO2

Determination Of B3 :

B3=(CaO+MgO)/SiO2

Determination Of Na2O & K2O :

As per Sl no 9 of EHS/SS-IM/SP/SOP-15

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